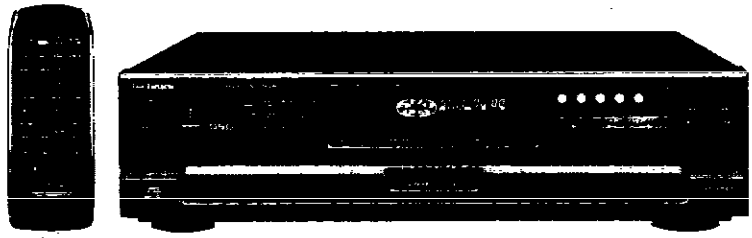
Technics®

Video CD Changer
SL-VM500

Operating Instructions



COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

Note:
The "EB" indication shown on the packing case indicates United Kingdom.

Before connecting, operating or adjusting this product, please read these instructions completely.

E EB GN

RQT2964-B

Dear Customer

Thank you for purchasing this Technics product.
For optimum performance and safety, please read these instructions carefully.

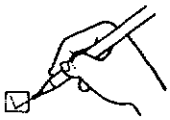
Contents

Caution for AC mains lead
(For United Kingdom) 3
Discs you can use 4
Concerning compact discs 4
Front panel controls 5
Connections 6
Concerning the remote control 7

Menu play 8
Sequential play 10
Frame skip 11
V-Index search function 11
Scene playback 12
Program play 12
Random play 14
Resume function 14
ID scan function 15
Repeat function 15
Skip function 16
Search function 17
Time mode selection 17
On-screen display 18
Sound switch function 18

Quick reference table of remote control operation 19
Suggestions for safety 22
Cautions concerning the moving of this unit 23
Technical specifications 23
Troubleshooting guide ..... **Back cover**

Supplied accessories



Please check and identify the supplied accessories

- ☐ AC power supply cord [1]
  (For United Kingdom) (VJA0733 or RJA0042-P)
  (For Australia and N.Z.) (RJA0036-K)
  (For others) (RJA0019-2K)
- ☐ Video connection cable (RJL1P007B20) [1]
- ☐ Stereo connection cable (SJP2249-3) [1]
- ☐ Remote control transmitter (RAK-SL171WH) [1]
- ☐ Batteries (UM-4, "AAA", R03) [2]

Use numbers indicated in parentheses when asking for replacement parts.

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

DANSK

BEMÆRK!
I DETTE APPARAT ANVENDES EN LASER.
BRUG AF BETJENINGSKNAPPER ELLER REGULERINGER ELLER FREMGANGSMÅDER UDOVER DE I DENNE BETJENINGSVEJLEDNING ANGIVNE, KAN MEDFØRE FARE FOR BESTRÅLING. ÅBN IKKE KABINETTET OG FORSØG IKKE AT UDFØRE REPARATIONER SELV. REPARATIONER MÅ KUN FORETAGES AF KVALIFICEREDE TEKNIKERE.

SUOMI

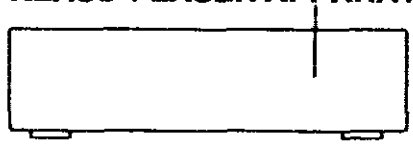
VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

NORSK

ADVARSEL!
DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVENT I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND.
ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

DANGER	INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM	(Inside of product)
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDER ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.	(Indersiden af apparatet)
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	(Tuotteen sisällä)
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.	(Apparatens inside)
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHETSLÅS BRYTES. UNGÅ EKSPONERING FOR STRÅLEN.	(Produktets inside)
VORSICHT	UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN.	(Im Inneren des Gerätes)

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



(Back of product)
(Komponentens bagside)
(Produktets baksida)

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⊛ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

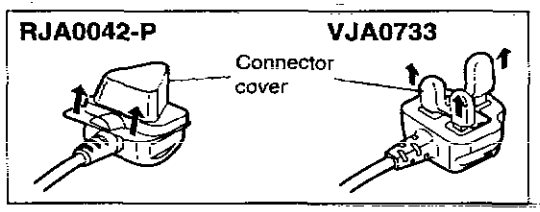
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

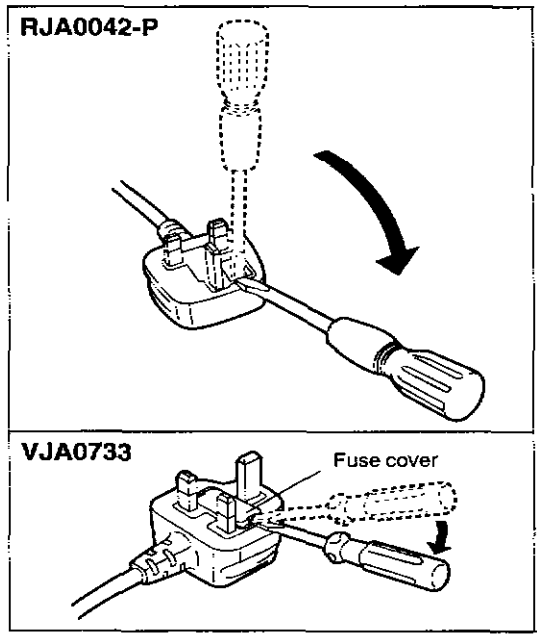
Before use

Remove the connector cover as follows.

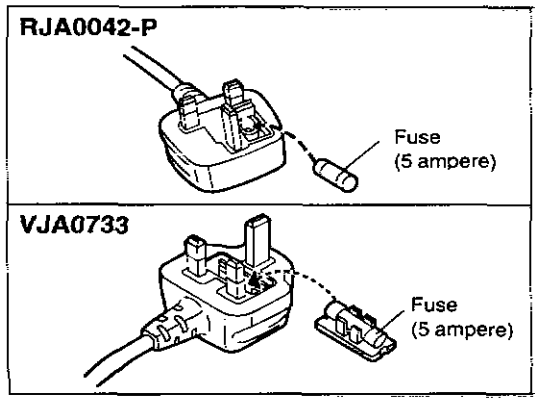


How to replace the fuse

1. *Open the fuse cover with a screwdriver.*



2. Replace the fuse and close or attach the fuse cover.



Discs you can use

You can playback the following discs on this video CD changer.

Video CD	
Video CDs must bear the below mark	
Types of discs	**Indication used in these instructions**
Version 1.1 Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.	VIDEO CD 1.1
Version 2.0 Equipped with PBC, these discs allow playback of menus on the TV screen as well as high resolution still pictures.	VIDEO CD 2.0

PBC (Playback control)

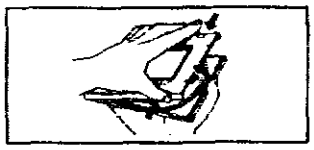
PBC is a signal recorded on version 2.0 CDs that enables you to control playback. It makes video enjoyment more interesting by allowing you to interact with the system viamenus, search functions or other typically computer-like operations.

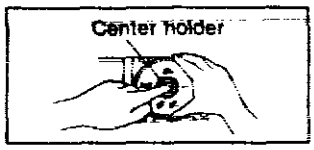
Audio CD	
Audio CDs must bear the below mark	Indication used in these instructions
	AUDIO CD

Concerning compact discs

Handling precautions

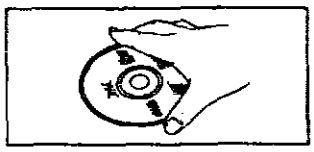
To open the compact disc case, gently press the sides of the top and pull up.
To remove the disc from the case, press the center holder and lift the disc, holding by the edges.

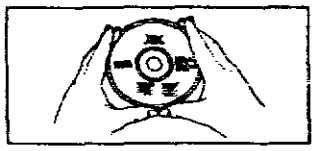




To return the disc to the case, insert the disc with the label facing up and press downward at the center.

Hold compact discs by the edges so as not to soil the surface with fingerprints. Fingerprints, dirt and scratches can cause skipping and distortion.

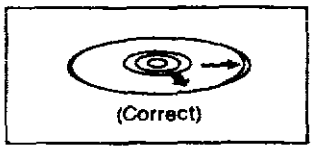


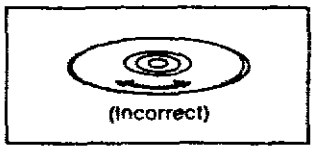


Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent on a disc.

If the surface is soiled, wipe gently with a soft, damp (water only) cloth.

Always move the cloth directly outward from the center of the disc, not in a circular motion as with standard phonograph records.


(Correct)


(Incorrect)

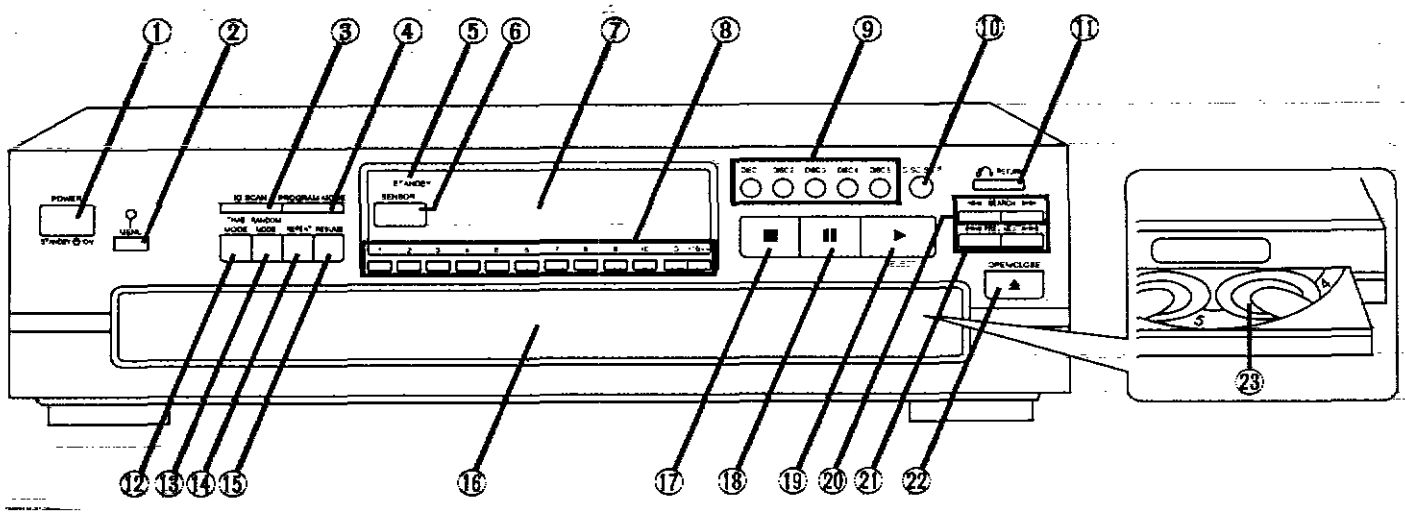
If you are taking the disc from a cold to a warm environment, moisture may form on the disc. Wipe this off with a soft, dry, lint-free cloth before using the disc.

Do not write on the label side with a ball-point pen or other writing instrument.

Storage precautions

Be sure to store discs in their cases to protect them from dust, scratches, and warping.

Do not place or store discs in the following places:
1) Locations exposed to direct sunlight
2) Humid or dusty locations
3) Locations directly exposed to heat vents or heating appliances
4) In the glove compartment or on the rear deck of an automobile



No.	Name	Ref. page
①	**Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/ON)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	*8*
②	**Menu button (MENU)**	*9*
③	**ID scan button (ID SCAN)**	*15*
④	**Program mode button (PROGRAM MODE)**	*12*
⑤	**"STANDBY" indicator (STANDBY)** When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.	–
⑥	**Remote control signal sensor (SENSOR)**	*7*
⑦	**Display**	–
⑧	**Numeric buttons (1 – 10, 0, >10/-/--)**	*9,10*
⑨	**Disc buttons (DISC 1 – 5)**	*8*
⑩	**Disc skip button (DISC SKIP)**	*9,10*
⑪	**Return button (↩ RETURN)**	*9*
⑫	**Time mode button (TIME MODE)**	*17*
⑬	**Random mode button (RANDOM MODE)**	*14*

No.	Name	Ref. page
⑭	**Repeat button (REPEAT)**	*15*
⑮	**Resume button (RESUME)**	*14*
⑯	**Loading drawer**	*8*
⑰	**Stop button (■)**	*9,10*
⑱	**Pause button (II)**	*9,10*
⑲	**Play button (▶ SELECT)**	*9,10*
⑳	**Search buttons (◀◀ SEARCH ▶▶)**	*17*
㉑	**Skip buttons (|◀◀ PREV NEXT ▶▶|)**	*16*
㉒	**Loading drawer open/close button (▲ OPEN/CLOSE)**	*8*
㉓	**Disc trays (1 – 5)**	*8*

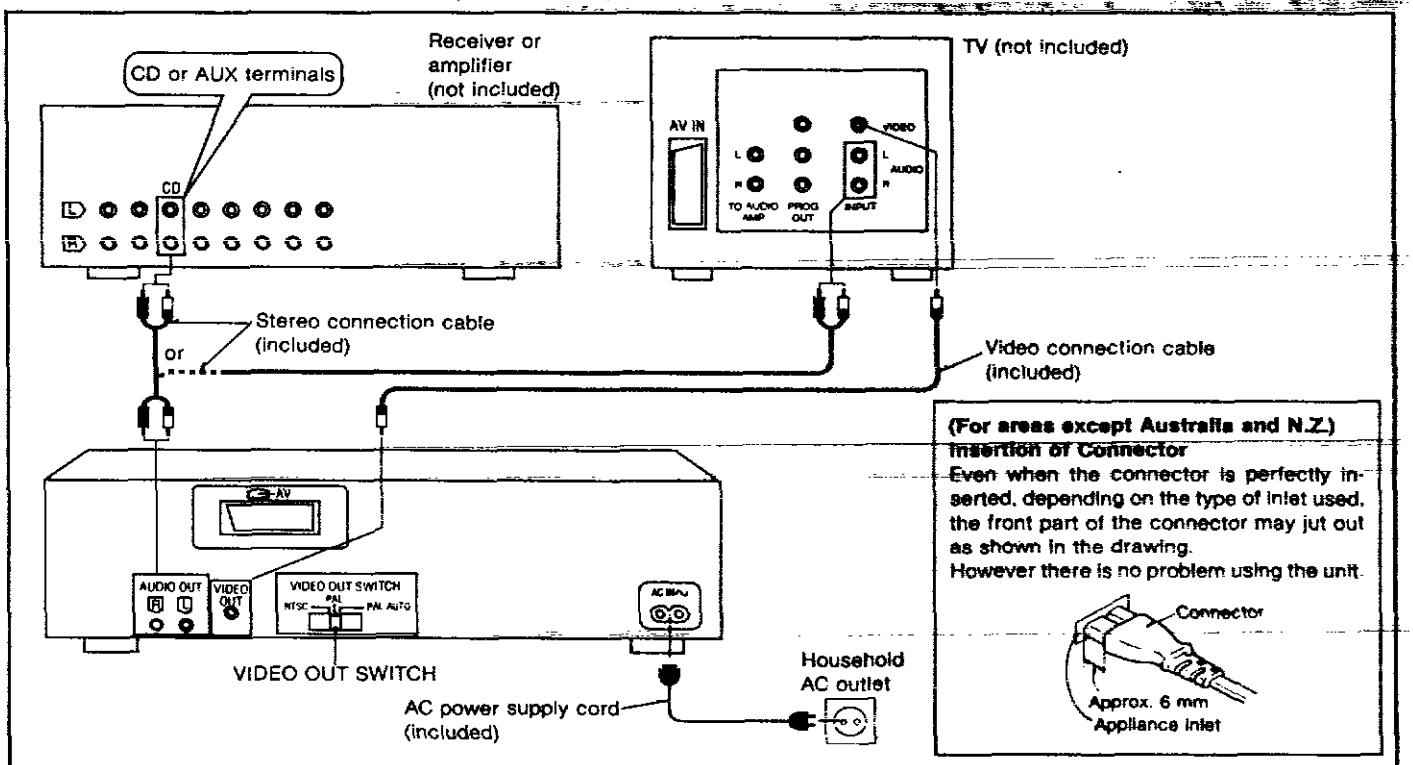
CAUTION
Do not touch the loading drawer and carousel while they are in motion, and do not attempt to rotate the carousel by hand; doing so could result in incorrect operation of the unit and/or damage to the discs.

Connections

Before connecting the changer to your audio system, make sure that the power of the changer and all other system components is turned off.

- Although the figure below shows the AC power supply cord being connected to a household AC outlet, if the amplifier (or receiver) is equipped with an AC outlet, connect the cord to that outlet.
- The configuration of the AC outlet differs according to area.

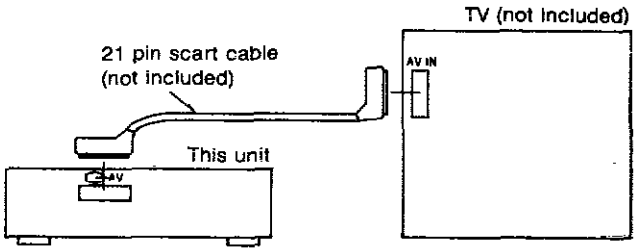
(For United Kingdom only)
BE SURE TO READ THE CAUTION FOR AC POWER SUPPLY CORD ON PAGE 3 BEFORE THE FOLLOWING CONNECTIONS.



Notes

- To listen from TV speakers, connect AUDIO OUT on the video CD changer directly to AUDIO IN on the TV.
- If connecting the video CD changer to a receiver with video CD input terminals, connect AUDIO OUT and VIDEO OUT of the video CD changer to AUDIO IN and VIDEO IN of the receiver. For details, see the instructions provided with your receiver.

To connect a TV with 21-pin scart terminal



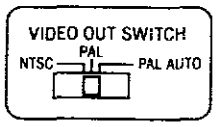
For your reference

You can output sound from the TV by simply connecting the video CD changer to the TV with the scart cable.

When using a receiver or amplifier to output sound

Connect the video CD changer to the TV with the scart cable, and use the included stereo connection cable to connect the AUDIO OUT terminal on the changer to the CD/AUX IN terminal on the receiver or amp. This lets you output sound using the receiver or amplifier, or from the TV as well.

VIDEO OUT SWITCH settings



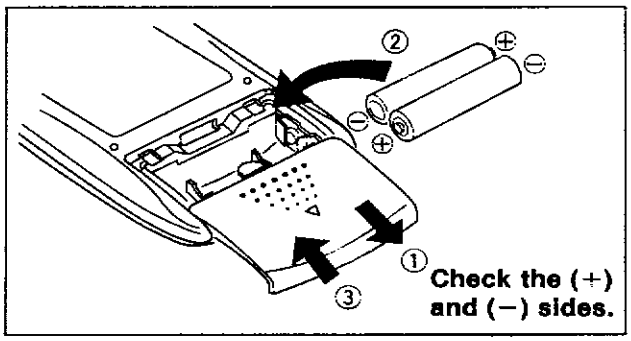
Set the VIDEO OUT SWITCH according to the television set.

NTSC: When connecting to a NTSC system TV
PAL: When connecting to a PAL system TV
PAL AUTO: When connecting to a PAL AUTO system TV.
(This is the system which lets you enjoy NTSC software with PAL system TVs.)

Note This switch is factory-set to "PAL".

Battery installation

Insert the batteries included with this unit as shown below.



When you need to replace these batteries
Use two UM-4 "AAA", IEC R03 (1.5 V) or equivalent batteries.

Battery notes

Do not mix old and new batteries, or batteries of different types (carbon and alkaline, etc.).

Always remove old, weak or worn-out batteries promptly and dispose of them properly.

The average battery life is about one year.
Although the battery life varies depending on how often the device is used, you should generally replace the batteries about once a year.

The batteries should be replaced if commands from the remote control transmitter do not operate the unit even when the transmitter is held close to the front panel.

Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.

If you will not use the remote control for a long period of time, remove the batteries and store them in a cool, dark place.

If a battery leaks, remove all batteries and dispose of them properly. Thoroughly clean the battery compartment before inserting new batteries.
If the leaking electrolyte comes into contact with skin or clothes, flush with water immediately.

Keep batteries out of reach of children.

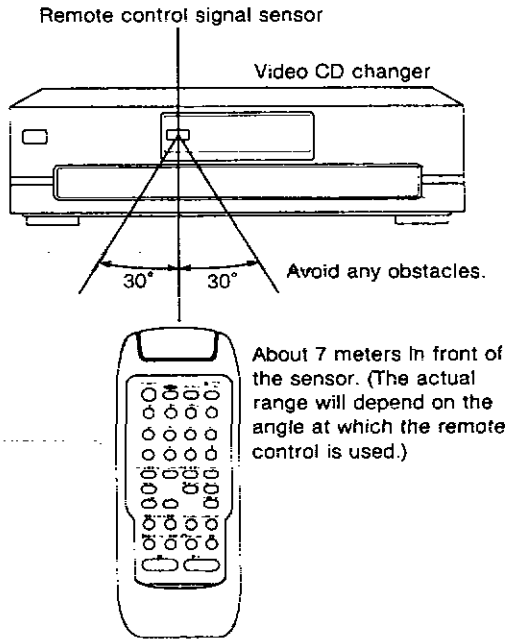
Do not use rechargeable (nickel-cadmium) type batteries.

Do not attempt to recharge alkaline or carbon batteries.

Do not dispose of used batteries in household rubbish.

Method for use

Use the remote control within 60 degrees and within 7 meters (23 ft.) facing directly toward the changer's remote control signal sensor.



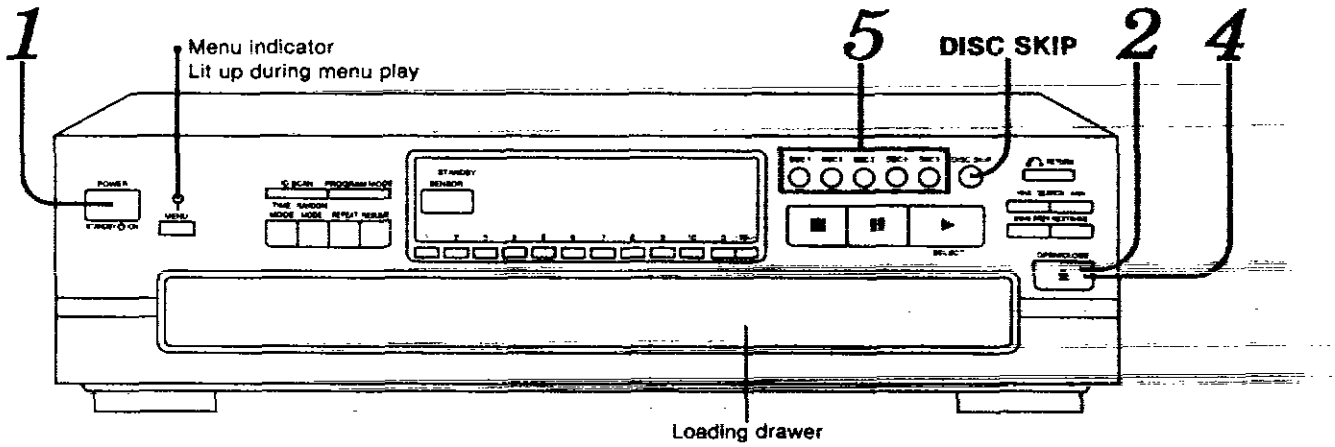
Note
Be sure the transmission window and the unit's sensor are free from dust. Excessive dust might affect performance.

The operation may not be correct if direct sunlight or another strong light source strikes the receiving sensor of this unit. If there is a problem, place the unit away from the light source.

Menu play (Only for video CDs with PBC)

VIDEO CD 2.0

You can use menus displayed on the TV screen to control playback when running interactive software.



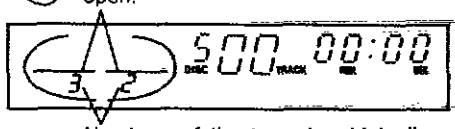
Before doing anything
- When the video CD changer is connected to the TV
  Turn ON the TV and set the TV/VIDEO selector on the TV to project the video CD picture.
- Turn ON the receiver and/or amplifier and select the proper source.

1 POWER

Press POWER.
The unit will switch on.

2 OPEN/CLOSE

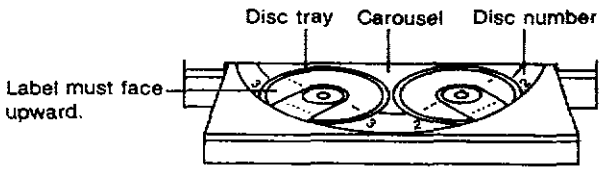
Press OPEN/CLOSE to open the loading drawer.
Indicates that the loading drawer is open.



Numbers of the trays in which discs are loaded.

3

Load the disc(s) on the disc tray(s).
The discs can be loaded two at a time by pressing DISC SKIP to rotate the carousel.



Note
Do not load 8 cm and 12 cm discs on the same disc tray.

4 OPEN/CLOSE

Press OPEN/CLOSE again to close the loading drawer.

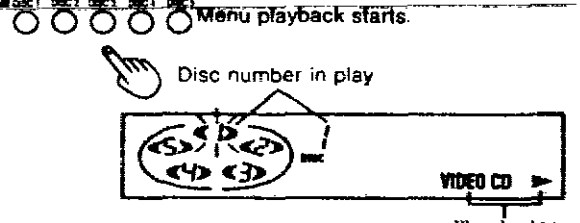
Note
Do not attempt to close the drawer by hand.

Current play position (The numeral illuminates with a red color.)

Illuminates when a disc is in the disc tray. If there is no disc in the disc tray, the indication disappears when the disc tray comes to the play position.

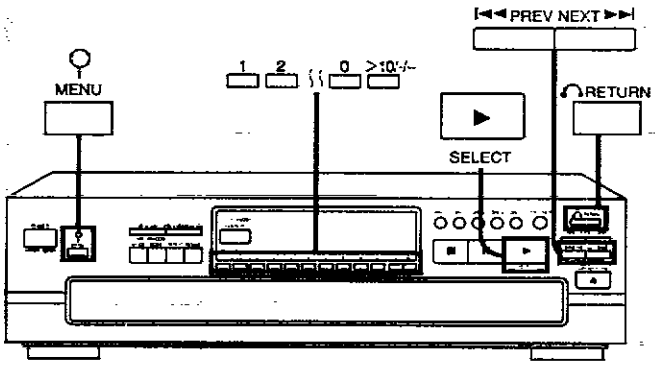
5

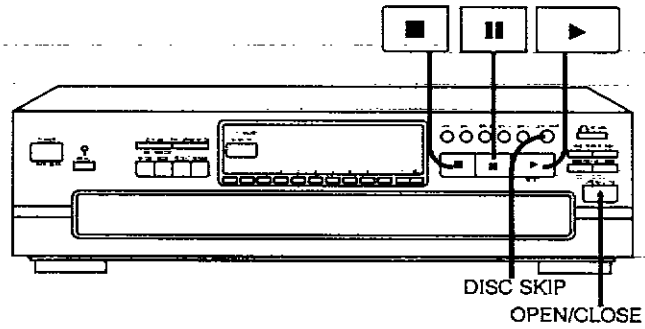
Press the desired disc button (1 – 5).
Menu playback starts.



The illumination of a disc button indicates that there is a disc in the corresponding tray. During play, the illuminated color will change to green.

While the menu appears on the TV screen, press the buttons as indicated on next page (example only), to interact with the system.





How to work with menus

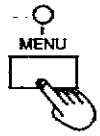
Menus will vary according to disc. Press the buttons in response to what appears on the TV screen and in accordance with the disc's instructions.

Buttons and function

(Example)

What you want to do	Button
To select a menu item	1 2 0 >10/-/-- **To select an item 1–10** Press the appropriate (1–10) button **To select an item over 10** (Example: Item 20) >10/-/-- → 2 → 0
To playback the selected item	▶ SELECT
To move to the next item	NEXT ▶▶I
To go back to the previous item	I◀◀ PREV
To return to the previous menu	RETURN

To quit menu playback



[While the changer is stopped]

Press MENU.

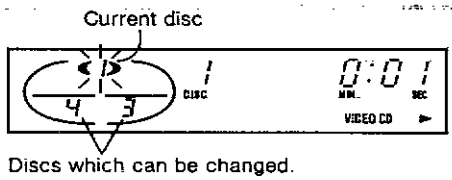
The indicator will go out and "MENU OFF" appears on the TV screen.

When menu playback is OFF, playback functions in the same way as when playing back tracks on a 1.1 version video CD. As a result, some menu items may not playback.

To exchange discs during play

While playing a disc, it is possible to change the other discs without interrupting play.

① **Press OPEN/CLOSE to open the loading drawer.**



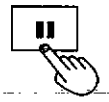
② **Press DISC SKIP to rotate the disc trays and exchange the discs.**

The carousel will move one disc tray. Pressing again moves the carousel in the opposite direction two disc trays.

③ **Press OPEN/CLOSE to close the loading drawer.**

> ***Note***
> If you play a disc with the loading drawer open, discs other than the current disc can not be played.

To temporarily stop play

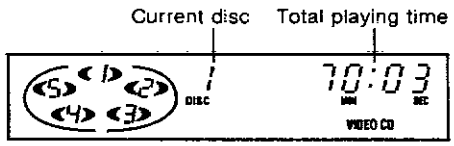


Press ❚❚.

Press ▶ to resume play.

To stop play

Press ■.

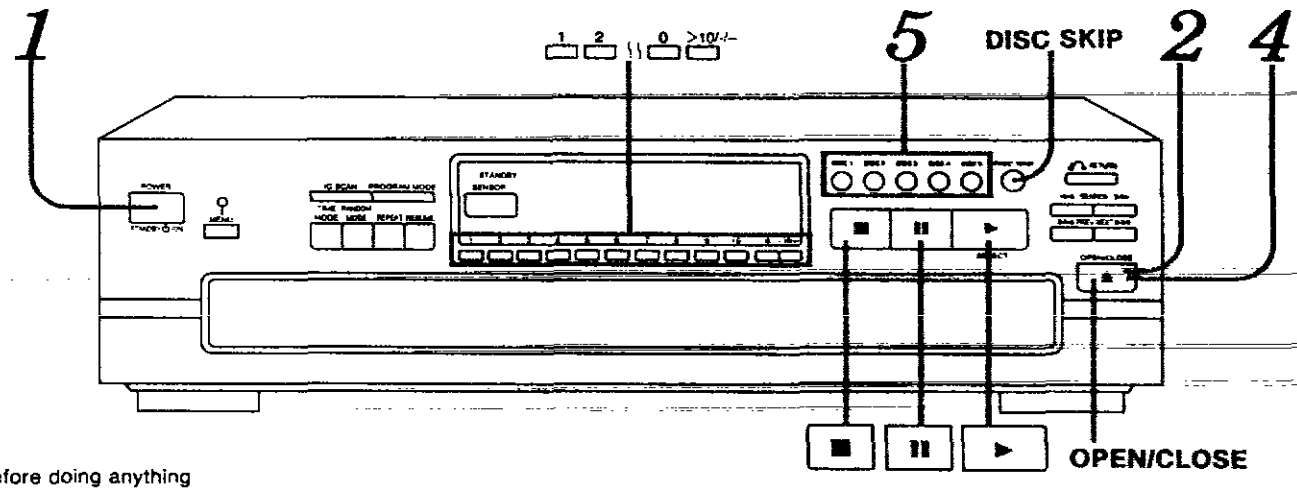


The total playing time displayed includes the silent sections between tracks. For this reason, it may be a few seconds longer than the playing time indicated on the disc.

Sequential play (For audio CDs and video CDs without PBC)

VIDEO CD 1.1 | AUDIO CD

All of the discs will be played, beginning from track 1 on the selected disc.



Before doing anything
- For video CDs (ver. 1.1)
  Turn ON the TV and set the TV/VIDEO selector on the TV to project the video CD picture.
- Turn ON the receiver and/or amplifier and select the proper source.

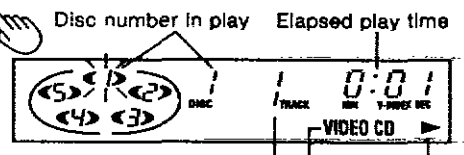
1 POWER **Press POWER.**
The unit will switch on.

2 OPEN/CLOSE **Press OPEN/CLOSE to open the loading drawer.**

3 **Load the disc(s) on the disc tray(s).**

4 OPEN/CLOSE **Press OPEN/CLOSE again to close the loading drawer.**

5 **Press the desired disc button (1 – 5).**
Play will begin from the selected disc.

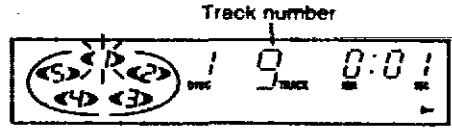


The changer plays all the tracks on all the discs in order and stops automatically when the last track on the last disc finishes playing. The first disc will then be at the playing position.

Note
Menu playback is automatically selected for version 2.0 video CDs if any are loaded in the trays.

To directly access a desired track

Press the numeric button(s) to select the track.



To select a track between 1 and 10:
Press the corresponding number on the numeric button.
To select a two-digit track number over 10:
First press >10/-/--, and then press the numbers for the two digits.
For example; number 20:
Press >10/-/--, then 2, and then 0.

To exchange discs during play

① **Press OPEN/CLOSE to open the loading drawer.**

② **Press DISC SKIP to rotate the disc trays and exchange the discs.**

③ **Press OPEN/CLOSE to close the loading drawer.**

To temporarily stop play

Press ❚❚.
Press ▶ to resume play.

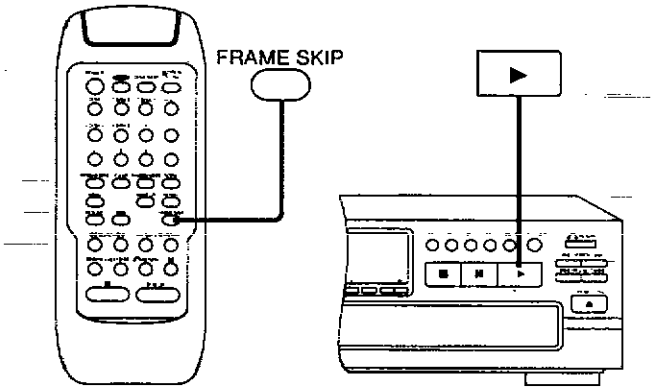
To stop play

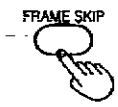
Press ■.

Frame skip

(Only available from the remote control.)
With this function, you can advance a motion picture video one frame at a time.

VIDEO CD 2.0 VIDEO CD 1.1





[While a video CD motion picture is in play]

Press FRAME SKIP.

The instant you press the button, the video will pause on the currently displayed frame. Every time thereafter that you press the button, the picture will advance one frame.

To cancel frame skip

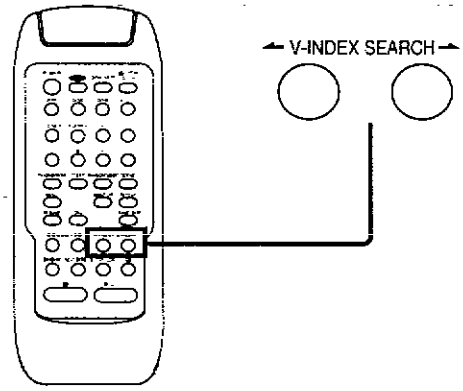
Press ▶.

V-index search function

(Only available from the remote control.)
With this function, you can search through V-index numbers on the video CD until you find the part you want.

VIDEO CD 2.0 VIDEO CD 1.1

Note
This function works with only discs on which V-index numbers have been recorded.



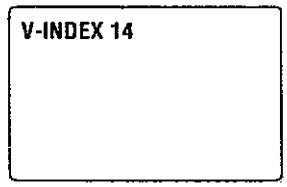
[In the play or pause mode]

Press and hold ◄ or ►

◄ : You can search backward.
► : You can search forward.

In the menu play mode
You can search forward or backward only within the selected item.
In the sequential/program/random play mode
You can search forward or backward only within the current track.

V-index number



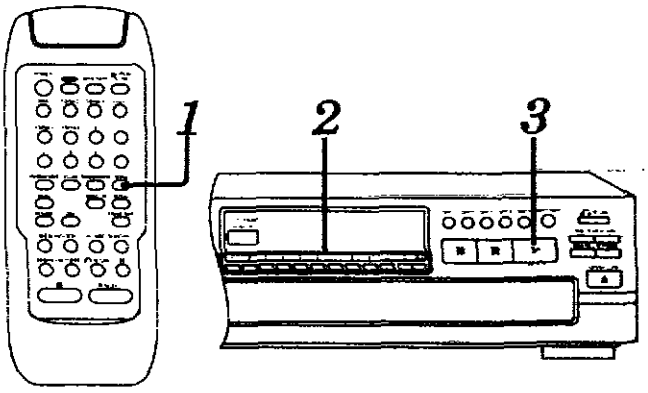
TV screen

Release the button when you reach the desired point.
The changer will return to the play mode.

Scene playback

(Only available from the remote control.)
On video CDs with PBC, menus, motion pictures and still shots are divided into scenes. These scenes are numbered with what we call scene numbers. With scene playback, you can watch a particular scene by simply specifying its number.

VIDEO CD 2.0



1 SCENE

[While menu play is stopped or on pause]
Press SCENE.

There following, the range of scene numbers on the disc is displayed on the TV screen.

Scene numbers on the disc

SCENE– (1–57)

2 1 2 \\ 0 >10/-/--

Press the numeric button(s) to specify the scene number.
For example:
To select scene number 20, press >10/-/--, then 2, and then 0.

Specified scene number

SCENE 20 (1–57)

3 ▶

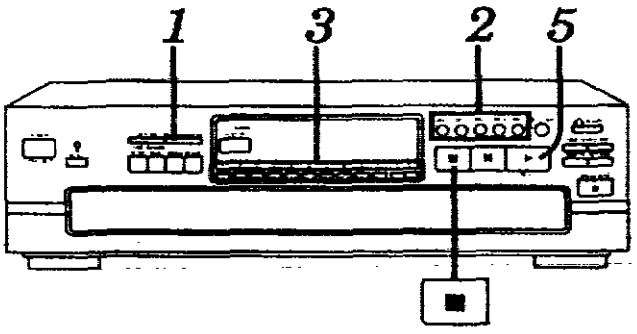
Press ▶.
Playback of the selected scene starts. When the scene is over, the menu will reappear on the screen

Note
You cannot playback anything when specifying
- Scene numbers not on the disc
- Scene numbers of scenes not permitted for viewing

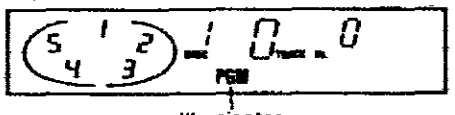
Program play

You can program up to 32 selections from the five discs in any order as you desire.

VIDEO CD 1.1 AUDIO CD



1 PROGRAM MODE [In the stop mode]
Press PROGRAM MODE.



Illuminates

2 DISC 1 DISC 2 DISC 3 DISC 4 DISC 5

Press the desired disc button (1 – 5).
For example:
To select disc 3, press DISC 3.

Specified disc number

The "AL" indication shows that all the tracks on the disc are selected.
To program by means of disc numbers only, repeat the above operation. (The count will increase by one for each operation.)

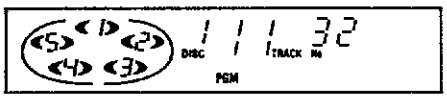
3 1 2 \\ 0 >10/-/--

Press the numeric button(s) to specify the track number.
For example:
To select track number 20, press >10/-/--, then 2, and then 0.

Specified track number Programmed order

4 **Repeat steps 2 and 3 until you have completed the desired entry.**

If you enter non-existing disc(s) or track(s) soon after the loading drawer is closed or when it is open, the corresponding indicator illuminates and the entry is included in the count. In the play mode, the changer will cancel the non-existing entry.

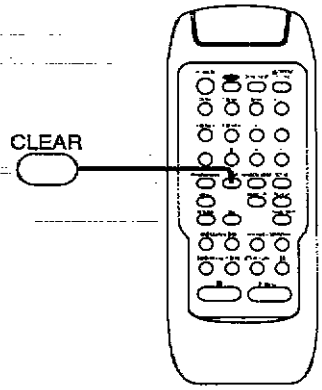


If you attempt a 33rd selection, the "–F" (full) indication will be displayed.

5 **Press ▶ to start play.**

To enter additional selections during play, repeat steps 2 and 3.

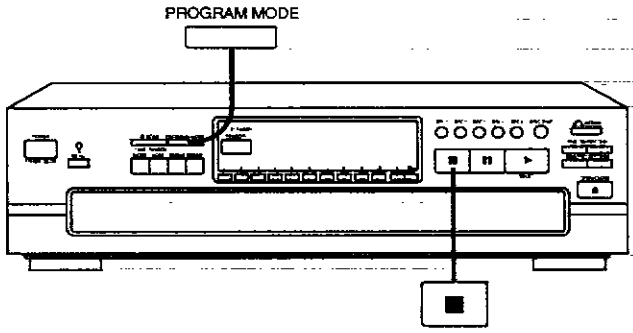
To clear a single item of the programmed contents



Press CLEAR.

Each time you press CLEAR, you will cancel the last entry in the order you have entered.

To clear the entire programmed contents



[In the stop mode]

Press ■.

The display will appear as shown below.

To cancel the program mode

[In the stop mode]

Press PROGRAM MODE again.

The "PGM" indicator will go out.

The programmed contents will remain stored in the memory until they are cleared, even after the program mode is canceled. In addition, if the disc is replaced with another one, program play will be carried out using the new disc. If non-existing entries occur at this time, they will be canceled.

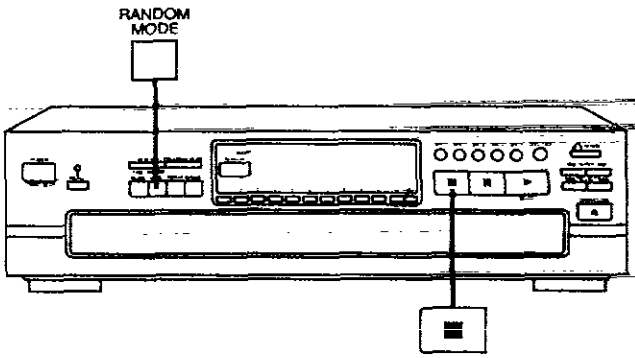
For your reference VIDEO CD 2.0

With version 2.0 video CDs, the menu function is automatically turned OFF and tracks are played back. By track, it is meant a sectioned-off piece of the picture or audio recording on the disc. The number allotted to each track will be shown on the display while that track is playing.

Random play

All of the tracks will be played one time each in random order. There are two types of random play as described below.

VIDEO CD 1.1 AUDIO CD



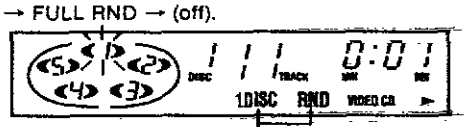
One disc random play

The changer will play all tracks on the current disc in random order. Then it will choose a new disc randomly, excluding the discs already played, and play all tracks on that disc in random order.

[In the stop or play mode]

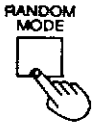
Press RANDOM MODE so that the "1 DISC RND" indicator illuminates.

Each time the button is pressed, the display will change in the following order: 1 DISC RND → FULL RND → (off).



Full random play

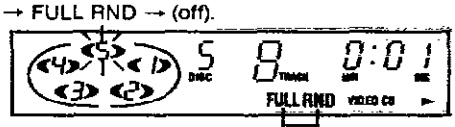
Each track to be played back is selected randomly from all of the tracks on all of the discs, excluding the tracks that have already been played.



[In the stop or play mode]

Press RANDOM MODE so that the "FULL RND" indicator illuminates.

Each time the button is pressed, the display will change in the following order: 1 DISC RND → FULL RND → (off).



The changer will stop automatically when all the tracks on all discs have been played once.

To cancel the random play mode

Press ■.

The "1 DISC (or FULL) RND" indicator will go out.

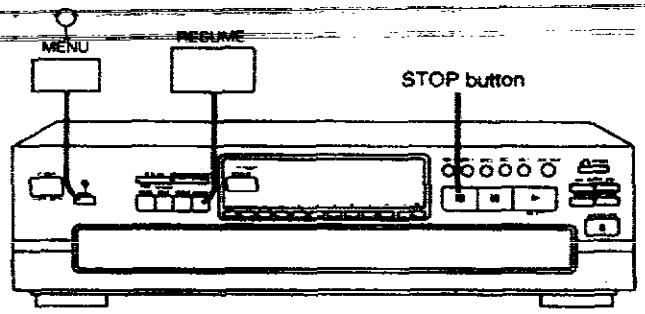
For your reference VIDEO CD 2.0

With version 2.0 video CDs, the menu function is automatically turned OFF and tracks are played back.

Resume function

With this function, you can resume playback of a video you stopped, from a point not too far from where you left off. If having to stop a video CD in play, this function helps you understand how much of the video you have already watched when you start playback again.

VIDEO CD 2.0 VIDEO CD 1.1



[If you stopped the video with the STOP button]

Press RESUME.

Playback is resumed roughly from the point the video was at when you pressed the STOP button.

In the menu play mode

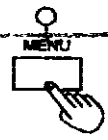
Playback resumes from the begining of the scene (see page 12.) where you stopped playback.

In the sequential play mode

Playback is resumed roughly from the point where the video was stopped playback.

Note

This function does not work in the program/random play mode.



Note VIDEO CD 2.0

You turn OFF the resume function if you turn ON/OFF the menu while the video is stopped. If you then press RESUME again, the disc will start from the beginning.

Consequently, to use the resume function to your best advantage with videos or other sources, you should turn the menu function OFF before you start the disc.

AUDIO CD

- The resume function works with audio CDs in the same way it does with video CDs.

Playback will be resumed from the beginning of the track.

For your reference

This function works even after you turn OFF the changer provided you stop the video with the STOP button.

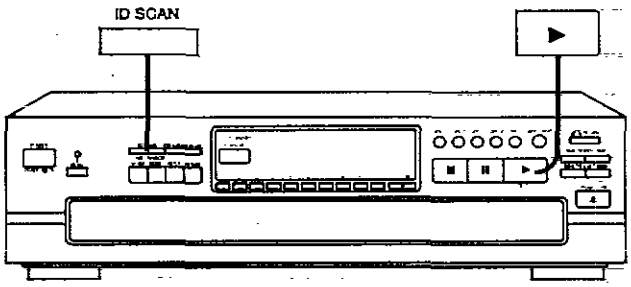
1. Stop the video with the STOP button.
2. Press POWER to turn OFF the changer.
3. Press POWER to turn ON the changer.
4. Press RESUME.

ID scan function

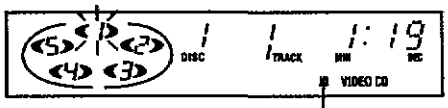
This function is convenient to use when searching for a desired track.
The order of scanning is the same as for play mode.

VIDEO CD 1.1

This function plays back the first 5 seconds of every track. Between previews, the track is fast-forwarded until the next track is reached.



[In the play, stop or pause mode]
Press ID SCAN.
ID scan will start.

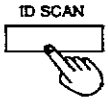


Illuminates

When the desired track has been found:

Press ▶.
The changer will play from the track being played.

To cancel ID scan



Press ID SCAN while this function is in operation.
The "ID" indicator will go out.

The changer will continue to play from the track being played.

AUDIO CD

- ID scan works with audio CDs in the same way it does with video CDs.

The function will search from the beginning of the track for a loud section, and will play 10 seconds of the track centering around that point.

When the desired track has been found:

Press ▶.
The changer will play the track from the beginning.

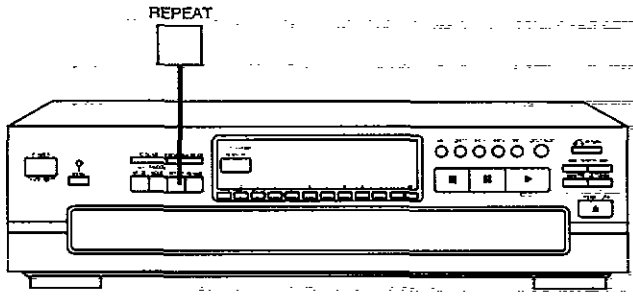
For your reference VIDEO CD 2.0
With version 2.0 video CDs, the menu function is automatically turned OFF and tracks are played back.
To use this function, you have to first stop the changer (stop button) and then press the ID SCAN button.

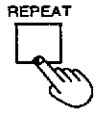
Repeat function

Play will continue endlessly in accordance with the specific play mode selected.

Note
The repeat function does not work for menu playback with version 2.0 video CDs.

VIDEO CD 1.1 AUDIO CD





[Before or during play]
Press REPEAT.

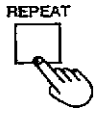
Illuminates

In the sequential play mode
All tracks of all discs will be played repeatedly.

In the program play mode
The changer plays only the programmed selections in the programmed sequence repeatedly.

In the random play mode
When the changer has played all the tracks on all the loaded discs, it will select a new random sequence and play continuously. The sequence differs each time.

To cancel the repeat mode



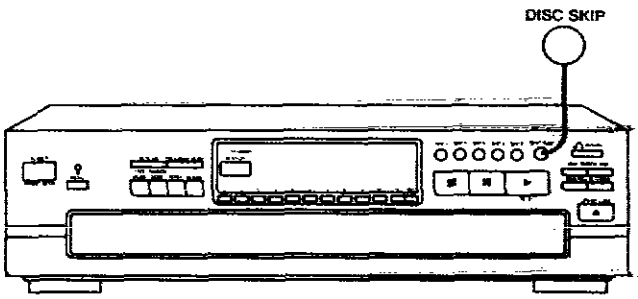
Press REPEAT again.
The " ⊂⊃ " indicator will go out.

Skip function

To skip discs

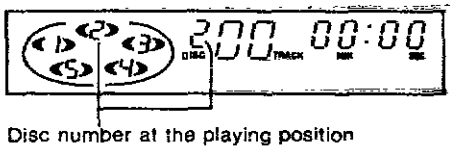
Use this function to skip discs when selecting a disc which you wish to play, and when loading and unloading the discs.

VIDEO CD 2.0 VIDEO CD 1.1 AUDIO CD



[In the play or stop mode]

Press DISC SKIP to rotate the disc tray.



Disc number at the playing position

In the menu/sequential/one disc random play mode
When the loading drawer is closed, pressing DISC SKIP changes the disc and the changer plays the next disc.
If a disc is not on the selected disc tray, the changer plays the disc at the next number.
When the loading drawer is open, pressing DISC SKIP moves the carousel by one disc tray. Pressing again moves the carousel in the opposite direction so that you can change all discs except the one being played.

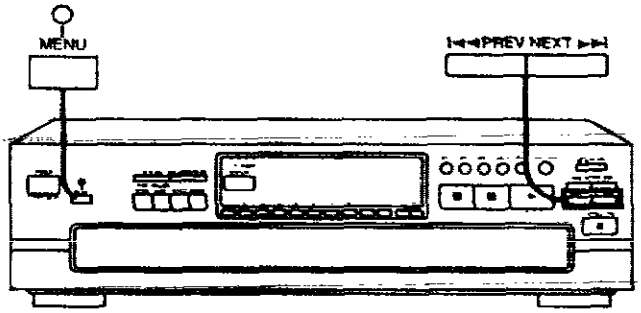
In the program/full random play mode
When the loading drawer is open, pressing DISC SKIP moves the carousel by one disc tray. Pressing again moves the carousel in the opposite direction so that you can change all discs except the one being played.

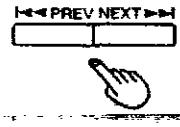
In the stop mode
When the loading drawer is closed, pressing DISC SKIP changes the disc tray to the next one.
When the loading drawer is open, pressing DISC SKIP moves the carousel by two disc trays.

To skip tracks

Use this function to skip tracks when selecting a track which you wish to play.

VIDEO CD 1.1 AUDIO CD

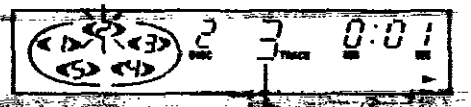




[In the play, stop or pause mode]

Press either PREV (⏮) or NEXT (⏭) until you reach the desired track.

⏮: You can skip backward.
⏭: You can skip forward.



Track number at the playing position

In the sequential/program play mode
In the sequential play mode, you can skip only within the current disc.
In program play mode, you can skip from one track to another in the programmed sequence.

⏮: You can skip to the beginning of the track being played. If you press this button again quickly, you can skip to the beginning of the previous track.
Remember that in a backward skip, the current track is included in the count.

⏭: You can skip as many tracks as the number of times you press the button.

In the random play mode

⏮: You can skip to the beginning of the current track.
⏭: You can skip to the beginning of a next track in random order.

You can also skip tracks, as described above, when the changer is in the stop mode (except during random play and menu play) or pause mode.

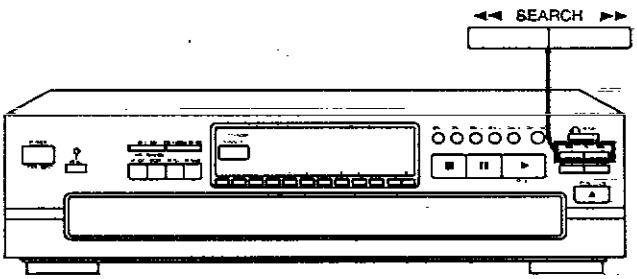
For your reference VIDEO CD 2.0

The buttons you use in menu playback and how you use them will differ from disc to disc. Do as explained in the instructions that came with your disc or as shown on the TV screen. (See page 9.)

Search function

You can search rapidly forward or backward on the disc for specific sections.

VIDEO CD 2.0 VIDEO CD 1.1



[In the play or pause mode]

Press and hold ◀◀ or ▶▶.

◀◀: You can search backward.
▶▶: You can search forward.

Release the button when you reach the desired point.
The changer will return to the play mode.

In the sequential play mode
You can search forward over discs and backward within the current disc.

In the menu play mode
You can fast-forward and rewind while viewing an item selected from a menu.

In the program/random play mode
You can search forward or backward only within the current track.

For your reference

While the changer is on pause, you can run a high-speed search using these buttons. While fast-forwarding or rewinding, the elapsed playback time is shown on the TV screen, but the picture is placed on pause.

AUDIO CD

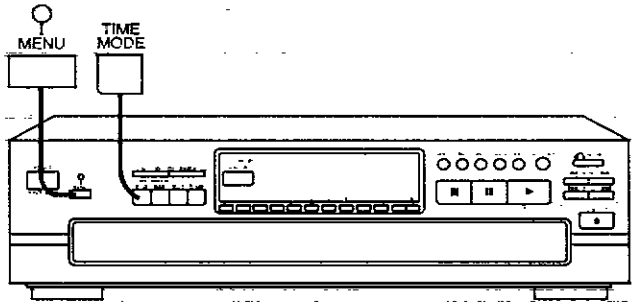
- Search function works with audio CDs in the same way it does with video CDs.
  However, if the changer is on pause when you start your search, it will always return to the pause state when you lift your finger off the button.

The search function will begin slowly, and then, if the button is held pressed for longer than 3 seconds, it will change to high-speed search.

Time mode selection

Various time information of the current disc can be displayed.

VIDEO CD 2.0 VIDEO CD 1.1 AUDIO CD



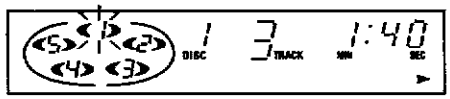
[In the play or pause mode]

Press TIME MODE.

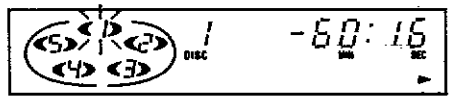
The information will change (as described below) each time you press the button.

The below displays use audio CD playback as an example.

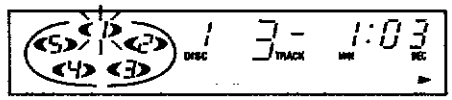
① Track number and elapsed play time of the current track



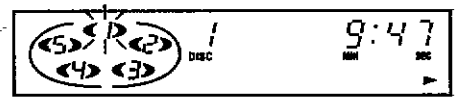
② Total remaining time on the disc



③ Track number and remaining time of the current track



④ Total elapsed play time on the disc



While a menu is in play or on pause, the display changes in rotation from ① to ③ every time you press the button, but no track number will be shown.

In the sequential/program/random play mode

VIDEO CD 2.0 VIDEO CD 1.1
When track number 20 or greater is playing, "--:--" is shown in display ③.

AUDIO CD
When track number 21 or greater is playing, "--:--" is shown in display ③.

In the program/random play mode
The displayed information will alternate between displays ① and ③ each time the button is pressed.

On-screen display

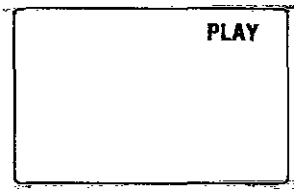
This function displays disc position and selections you make, on the TV screen. It is ON when you turn ON the changer.

VIDEO CD 2.0 | VIDEO CD 1.1 | AUDIO CD

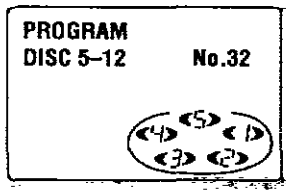
Selections you make

Displays show the changes you make via the changer and remote control as you make them, as well as the disc and track number you are about to access, and program information.

Ex.
Changes in operating state you make either at the changer or by remote control



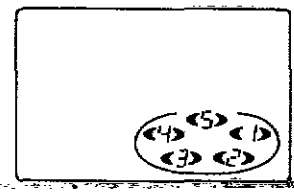
When programming



Disc positions

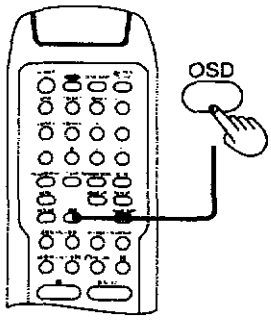
The display uses a larger version of the same carousel icon found on the front panel.

Ex.



This display is shown while the discs are being changed (when neither sound nor pictures are produced).

To turn OFF the on-screen displays

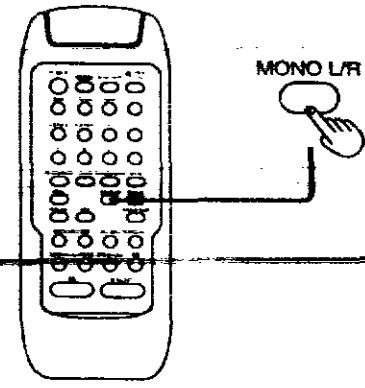


Press OSD on the remote control.
When OFF, no displays will appear on the screen.
The function switches between ON and OFF every time you press OSD.

Sound switch function

(Only available from the remote control.)
This function lets you have more fun with sound multiplex CDs, both audio and video.

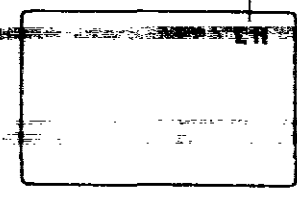
VIDEO CD 2.0 | VIDEO CD 1.1 | AUDIO CD



Press MONO L/R until either "MONO L" or "MONO R" appears on the TV screen.

As you press the button, the display changes in the order shown below

MONO L → MONO R → L R



TV screen

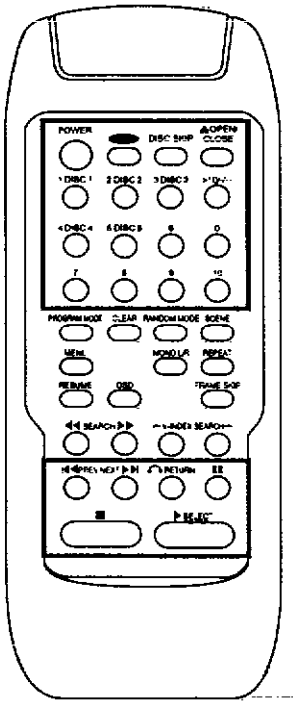
MONO L:
The left side channel is produced from both speakers (sound from the right side channel will be canceled out).

MONO R:
The right side channel is produced from both speakers (sound from the left side channel will be canceled out).

L R:
Left and right side channels are produced from their respective speakers.

This is the setting when power is turned on.

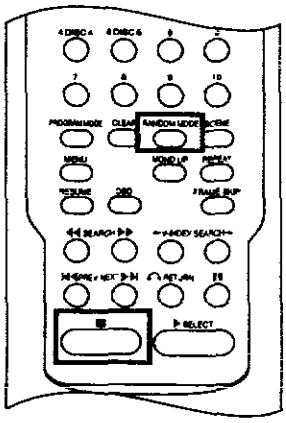
Basic operation



To turn OFF/ON the main unit	POWER
To open/close the loading drawer	▲OPEN/ CLOSE
To rotate the carousel	DISC SKIP
To select the desired disc number	1DISC1 2DISC2 3DISC3 4DISC4 5DISC5
To select the desired track number	1DISC1 2DISC2 3DISC3 >10/-/-- 4DISC4 5DISC5 6 0 7 8 9 10 **To select a track between 1 and 10:** Press the corresponding number on the keypad. **To select a two-digit track number over 10:** First press >10/-/--, and then press the numbers for the two digits.
To start play	▶SELECT
To stop play temporarily	❚❚ Press ▶ button to resume play.
To stop play	■
Buttons used for menu playback VIDEO CD 2.0	
To select a menu item	1DISC1 2DISC2 3DISC3 >10/-/-- 4DISC4 5DISC5 6 0 7 8 9 10 **To select an item between 1 and 10:** Press the corresponding number on the keypad. **To select a two-digit item number over 10:** First press >10/-/--, and then press the numbers for the two digits.
To move to the next item	NEXT ▶▶|
To go back to the previous item	|◀◀ PREV
To playback the selected item	▶SELECT
To return to the previous menu	RETURN

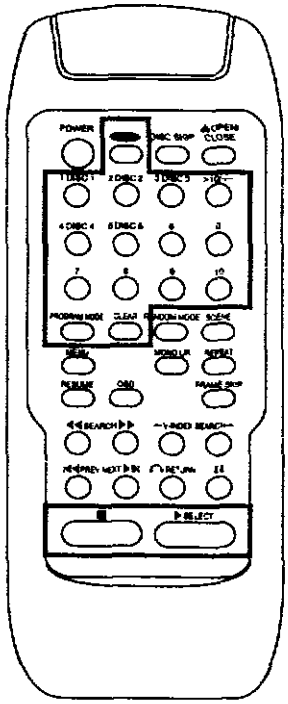
Note
Operation will vary according to software. Read carefully the instructions provided with your software so as to run the software correctly.

Random play



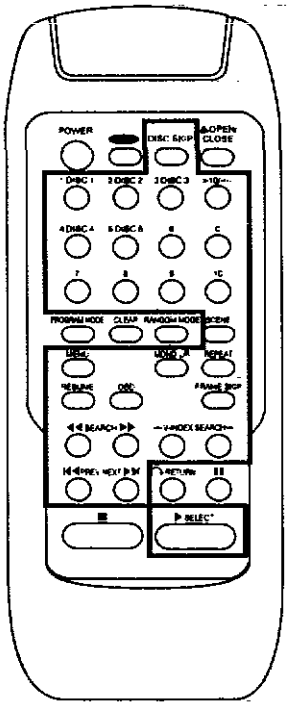
To start one disc/full random play	RANDOM MODE — Each time the button is pressed, the random mode will change in the following order: One disc random → Full random → (off)
To stop random play	■ — Random mode is also canceled at the same time.

Program play



To start program play	① PROGRAM MODE — To cancel program mode, press this button again. ② — Select the disc number. ③ — Select the track number. Repeat steps ② and ③ until you have completed the desired entry. ④ ▶SELECT — Start play.
To clear a single item of the entered contents	CLEAR — Only the selection which is currently displayed is cleared.
To clear all entered contents	(In the stop mode) ■
To cancel the program mode	(In the stop mode) PROGRAM MODE — Press in program mode.

Other functions



To skip discs	DISC SKIP
To skip tracks	⏮ PREV NEXT ⏭
To search for a desired place	(In the play or pause mode) ◀◀ SEARCH ▶▶
To resume playback	(In the stop mode) RESUME
To repeat play	REPEAT — To cancel repeat mode, press this button again.
To turn OFF/ON the OSD function	OSD — The function turns OFF/ON every time you press this button.
To switch the sound channel	MONO L/R — Every time the button is pressed, the sound channel changes as shown here. MONO L → MONO R → L R
Buttons used only during video playback	
VIDEO CD 2.0 **To quit menu playback**	(In the stop mode) MENU
VIDEO CD 2.0 **To playback particular scenes from PBC equipped video CDs**	(In the play or pause mode) SCENE ➡ 1 DISC 1, 2 DISC 2, 3 DISC 3, >10, 4 DISC 4, 5 DISC 5, 6, 0, 7, 8, 9, 10 — Select the scene number. ▶ SELECT — Start play.
To use the frame skip function	(While a video CD motion picture is in play) FRAME SKIP
To cancel the frame skip function	▶ SELECT
To search through V-indexes	(In the play or pause mode) V-INDEX SEARCH

Suggestions for safety

Placement

Avoid placing the unit in areas of:
- direct sunlight
- high temperature
- high humidity
- excessive vibration
- uneven surfaces. (Place the unit on a flat level surface).

Such conditions might damage the cabinet and/or other component parts and thereby shorten the unit's service life.

Ventilation

Place the unit in a well ventilated position at least 10 cm away from wall surfaces etc.

Stacking

Never place heavy items on top of the unit or the power cord.

Voltage

- It is very dangerous to use an AC power source of high voltage such as for an air conditioner.
  A fire might be caused by such a connection.
- A DC power source can not be used.
  Be sure to check the power source carefully, especially on a ship or other place where DC is used.

Power cord protection

- Avoid cuts, scratches or poor connection of the AC mains cord, as this may result in fire or electric shock hazard.
  Excessive bending, pulling or slicing of the cord should also be avoided.
- Do not pull on the cord when you are disconnecting the power, as this could cause an electric shock. Grasp the plug firmly when you disconnect the power supply.
- Never touch the plug with wet hands or a serious electric shock could result.

Foreign materials

- Ensure that no foreign objects, such as needles, coins, screwdrivers etc, accidentally fall into the unit or through the ventilation holes.
  Otherwise, a serious electric shock or malfunction could occur.
- Be extremely careful about spilling water or liquid on/into the unit, as a fire or electric shock could occur.
  (Disconnect the power plug and contact your dealer immediately if this occurs.)
- Avoid spraying insecticides onto the unit as they contain flammable gases which can be ignited.
- In secticides, alcohol, paint thinner and similar chemicals should never be used to clean the unit as they can cause flaking or cloudiness to the cabinet finish.

Maintenance

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution.

Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Service

- Never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem.
  A serious electric shock could result if you ignore this precautionary measure.
- If a problem occurs during operation (the sound is interrupted, indicators fail to illuminate, smoke is detected, etc) contact your dealer or Authorised Service Center immediately.
- Disconnect the power supply if the unit will not be used for a long time. Otherwise the operation life could be shortened.

Other notes

Avoid places such as the following:
- Near any equipment or device that generates strong magnetism.
- On any heat-generating equipment or device, or in any place where the temperature is high (35°C or higher)
- Extremely cold place (5°C or below).
- Near a tuner or TV (it may cause noise in the broadcast, or disturbance of the TV picture.).

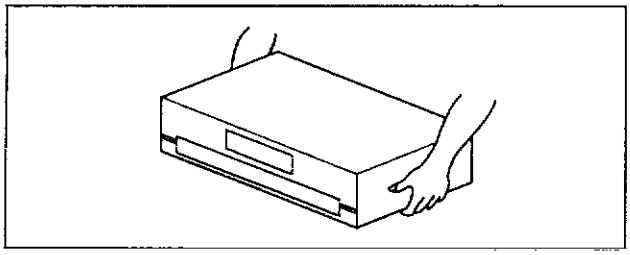
When carrying or storing the unit, handle it with care so it is not subjected to any strong bumps.
Always remove the discs before storing the unit for any period of time.

To avoid problems due to vibration.
- Do not place a book or similar object under this unit.
- Do not route the connection cables (of this or other units) across the operation panel, across the top, or under the unit.

Moisture may form on the lens in the following cases...
- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved from a cold environment to a warm one.

If moisture forms inside this unit, it may not work properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

Moving the unit



CAUTION

Before moving the changer to another location, be sure to carry out the "Preparations for moving the unit" described below.

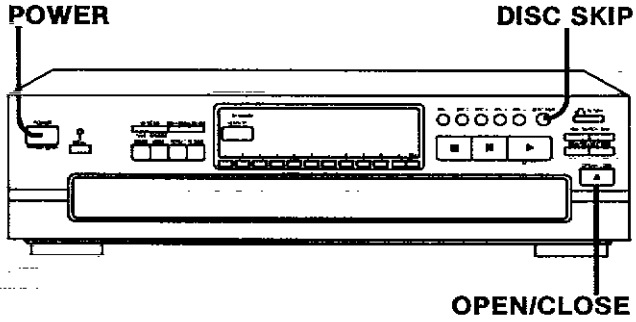
Failure to do so will expose the compact discs and the changer to the risk of severe damage.

Preparations for moving the unit

All of the discs must be removed so that the trays are completely empty.
Use the following procedure.

① Press POWER to switch off the unit.
② Press POWER to switch on the unit.
If there is a disc in the play section, it will be returned to the disc tray at this time.
③ Press OPEN/CLOSE to open the loading drawer.
④ Press DISC SKIP to rotate the disc trays and remove the discs from all disc trays.
⑤ Press OPEN/CLOSE to close the loading drawer.
⑥ Press POWER to switch off the unit.

If you have pressed a wrong button by mistake, return to step ①.



Technical specifications

AUDIO

No. of channels	2 (left and right, stereo)
Frequency response	2 – 20,000 Hz, ±1 dB
Output voltage	2 V (at 0 dB)
Dynamic range	92 dB
S/N	100 dB
Total harmonic distortion	0.007% (1 kHz, 0 dB)
Wow and flutter	Below measurable limit
DA converter	MASH (1 bit)
Output impedance	Approx.1.5 kΩ
Load impedance	More than 10 kΩ

VIDEO

Output voltage	1.0 Vp-p, 75 Ω

PICKUP

Wavelength	780 nm

GENERAL

Power consumption	26 W
Power supply	AC 50/60 Hz 230 – 240 V
Dimensions (W × H × D)	430 × 125 × 370 mm
Weight	5.0 kg

Note:
Specifications are subject to change without notice.
Weight and dimensions are approximate.

MASH is a trademark of NTT.

For United Kingdom
This apparatus was produced to BS 800.

Troubleshooting guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of authorized service centers (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
Changer will not play.	A disc(s) or other foreign object(s) has fallen inside the changer.	• Open the loading drawer, and remove the object.
	Moisture has collected in the changer.	• Switch on and allow the changer to dry out for about one hour before using it.
The disc in the changer does not play.	The disc is upside down.	• Make sure the label is facing upward.
	The disc is dirty.	• Wipe the disc with a soft cloth.
	The disc is scratched.	• Replace the disc with a new one.
	The disc is warped.	
	The disc is not within specified standards.	
Play stops before changing to the next disc.	The loading drawer is open.	• Press the OPEN/CLOSE button to close the loading drawer.
A certain music passage can't be played correctly.	The disc is dirty.	• Wipe the disc with a soft cloth.
	The disc is scratched.	• Replace the disc with a new one.
There is noise from the tuner or disturbance on the TV screen.	Caused by high-frequency signals from this changer.	• Use the changer further away from the tuner or TV. • If the tuner or TV's antenna is the indoor type, use an outdoor one.
When program play is started, an error message (−E) appears on the display.	Play was started without a track being programmed.	• Program a track.
An error message (−E) appears on the display, and the changer stops operating.	The mechanism of the changer has been improperly adjusted.	• Turn the unit off and then back on again. However, if the loading drawer is fully open, take out the compact disc(s) at the front position and then turn the unit off and then back on again.
The loading drawer stops in the middle of opening.		
An error message (F-26) appears on the display and the changer stops operating.	The servo LSI has malfunctioned.	• Unplug the changer from its outlet, plug it back in and turn the changer ON again.
Picture is smaller than screen.	It is possible that software recorded using the NTSC system is being viewed on a PAL type TV.	• Set the VIDEO OUT SWITCH on the unit's rear panel to "PAL AUTO". **Note** • Depending on the TV set used, the picture may shrink vertically and black bars may appear both at the top and bottom of the screen. This is not an indicatin of a malfunction. • If the picture remains unchanged even when the switch has been set to the "PAL AUTO" position, set it to the normal viewing position. • Switch the TV to the PAL mode.
Picture appears too wide.		
Picture movements are not smooth.		
Picture is not in color, or colors are not natural.		
Remote control does not operate correctly.	The batteries have run out.	• Replace batteries with new ones.
	There is an obstruction between the remote control and the changer.	• Remove the obstruction.
	The batteries are inserted incorrectly. [The (+) and (−) polarities are reversed.]	• Reinsert batteries so that the polarities are correct.

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

RQT2964-B

Printed in Japan

H0495H0